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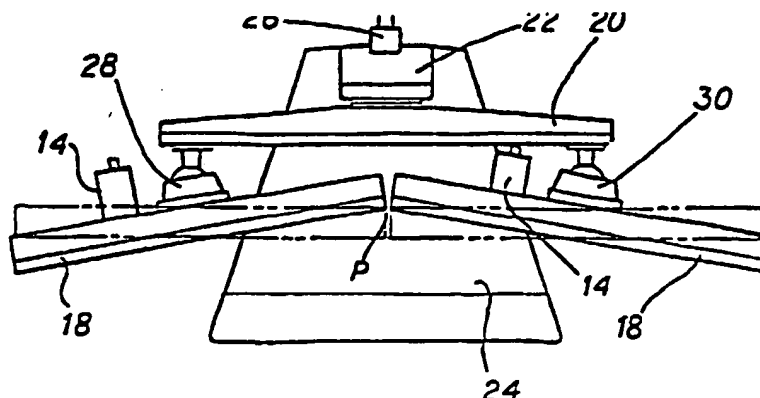
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(54) Title: COMPUTER DISPLAY SCREEN SYSTEM AND ADJUSTABLE SCREEN MOUNT, AND SWINGING SCREENS THEREFOR



(57) Abstract: A dual screen display system having, a base, a pair of electronic display screens (10, 18), an arm assembly (20) supporting the display screens and connected to the base, swingable mountings (28, 30) for swingably mounting the display screens, the mountings being adjustable as to the angular orientation of each of the display screens relative to the arm assembly between a first arrangement with the screens in a common plane, and a second arrangement in which the screens are inwardly swung positions thereby to permit each of the screens

to be swung into desired operative angular orientation, and adjustable movement limiting devices, engaging the swinging mountings and limiting movement of the screens.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F1/16

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 424 074 A (FAILLA STEPHEN J) 24 April 1991 (1991-04-24) column 12, line 30 - line 45; figures 16,17 column 13, line 35 - line 49; figures 23,24	1
P,X	--- DE 299 01 751 U (OCHS ARMIN) 8 April 1999 (1999-04-08) the whole document	1
P,X	--- WO 99 50813 A (MOWRY JEFF ;KREITZER DAVID F (US)) 7 October 1999 (1999-10-07) page 22, line 29 -page 23, line 30; figures 20-25 -----	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

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21.06.2001

Name and mailing address of the ISA

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**COMPUTER DISPLAY SCREEN SYSTEM AND ADJUSTABLE SCREEN MOUNT,  
AND SWINGING SCREENS THEREFOR**Claims of **WO0137070**

Translate this text

**CLAIMS****WHAT IS CLAIMED IS :**

1. A laptop computer comprising: a keyboard portion; a central liquid crystal display panel hingedly coupled to an edge portion of the keyboard portion; a first outer liquid crystal display panel hingedly coupled to a first edge of the central liquid display panel so as to be able to be folded over against the central liquid crystal display panel in a storage position, and folded out to a useable position generally parallel to the central liquid crystal display panel ; a second outer liquid crystal display panel hingedly coupled to a second edge of the central liquid display panel so as to be able to be folded over against the central liquid crystal display panel in a storage position, and folded out to a useable position generally parallel to the central liquid crystal display panel ; and wherein said central liquid crystal display panel may be folded over said keyboard portion once said first and second outer liquid crystal display panels have been folded onto said central liquid crystal display panel.
2. A display system comprising: a first liquid crystal display (LCD) panel ; a base assembly for supporting said first LCD panel on a work surface; a support arm operably associated with said base assembly; said support arm having a pivot mechanism for allowing at least a portion thereof to pivot between a first position and a second position; a second liquid crystal display (LCD) panel supported by said support arm; and wherein said second LCD panel may be pivoted from said first position, wherein said second LCD panel is facing substantially in the same direction as said first LCD panel, to said second position, wherein said second LCD panel is facing in substantially the opposite direction to said first LCD panel.
3. The display system of claim 1, wherein said support arm comprises first and second portions, and wherein said second portion is telescopically engageable with said first portion thereof.
4. A modular display system comprising: a base assembly ; a first support arm associated with said base assembly and extending upwardly away from said base assembly ; a second support arm secured to said first support arm and having at least a pair of coupling assemblies adapted to be secured to portions of first and second liquid crystal display (LCD) panels ; a third support arm operably coupled to said second support arm and having at least one coupling assembly for supporting a third LCD panel on said third support arm; and wherein said third support arm may be readily detached from said second support arm to enable said display system to be modularly configured as either a two panel LCD display system or as a three panel or greater LCD display system.
5. The display system of claim 4, wherein said second support arm includes three said coupling assemblies enabling said first and second LCD panels to be supported adjacent one another in either a portrait positions or landscape positions, while minimizing a spacing between said first and second LCD panels.
6. The display system of claim 4, wherein said third support arm includes a pair of said coupling assemblies enabling said third LCD panel, and a fourth LCD panel, to be supported thereon.
7. The display system of claim 6, wherein said third support arm includes three of said coupling assemblies enabling said third and fourth LCD panels to be supported in either a portrait or a landscape orientation while minimizing a spacing between said third and fourth LCD panels in either one of said orientations.

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB 00/01705

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claim : 1

A portable computer with a central and two outer folding LCD panels which can be folded over the central LCD and the assembly of three folded over the keyboard

2. Claims: 2,3

A display system comprising of two displays and an assembly for swingably mounting the two displays

3. Claims: 4-7

A modular display system comprising of two, three, four or more displays and an assembly for mounting the displays

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0424074 A	24-04-1991	US 5128662 A	07-07-1992
DE 29901751 U	08-04-1999	NONE	
WO 9950813 A	07-10-1999	AU 3468699 A	18-10-1999